

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 September 2005 (15.09.2005)

PCT

(10) International Publication Number
WO 2005/086273 A1

(51) International Patent Classification⁷: H01M 8/24, 8/02

(21) International Application Number:
PCT/EP2005/002243

(22) International Filing Date: 3 March 2005 (03.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/549,593 3 March 2004 (03.03.2004) US

(71) Applicant (for all designated States except US): IRD
FUEL CELLS A/S [DK/DK]; Kullinggade 31, DK-5700
Svendborg (DK).

(72) Inventors; and

(75) Inventors/Applicants (for US only): FREDERIKSEN,
Henning [DK/DK]; Svinget 10G, DK-5700 Svendborg

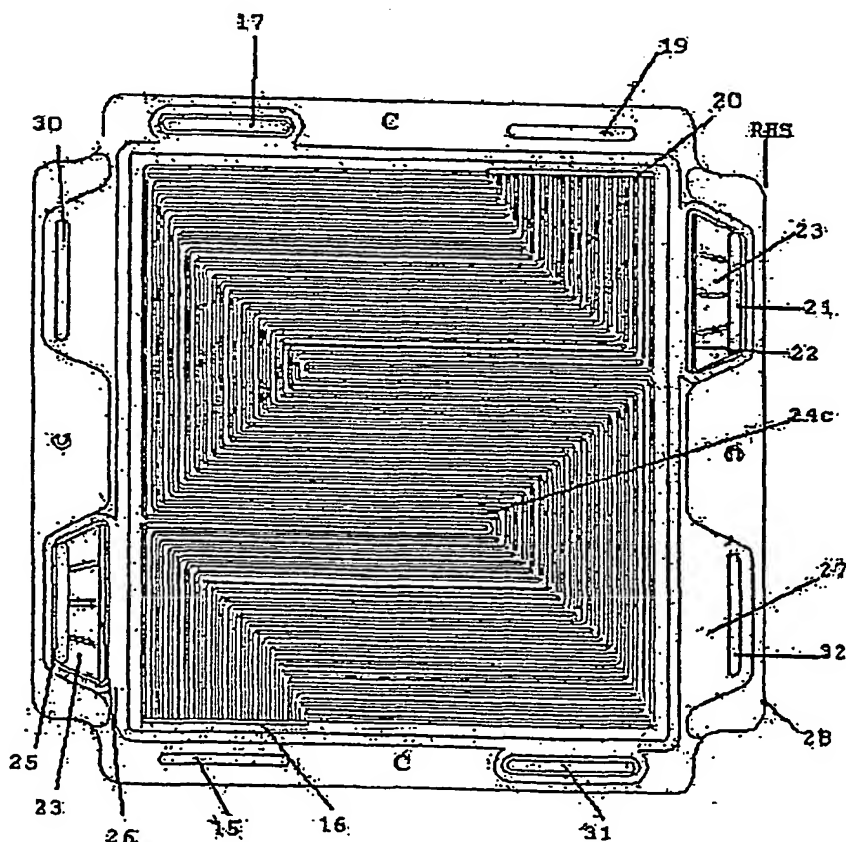
(DK). YDE-ANDERSEN, Steen [DK/DK]; Strandhuse
56, DK-5700 Svendborg (DK). GRAHL-MADSEN,
Laila [DK/DK]; Havnegade 21, DK-5874 Hesselager
(DK). LUNDSGAARD, Joergen, Schjerning [DK/DK];
Otte Ruds Vej 1, DK-5700 Svendborg (DK).

(74) Agents: PEEBLES, Katrina et al.; Ablett & Stebbing,
Caparo House, 101-103 Baker Street, London W1U 6FQ
(GB).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZM, ZW.

[Continued on next page]

(54) Title: DUAL FUNCTION, BIPOLAR SEPARATOR PLATES FOR FUEL CELLS



(57) Abstract: Dual function, bipolar separator plates are provided for use in fuel cells. These separator plates contain both a cathodic flow field and an anodic flow field in a single separator plate.

WO 2005/086273 A1

BEST AVAILABLE COPY